

IN THE CLAIMS

Applicant submits below a complete listing of the current claims, with insertions, if any, indicated by underlining and deletions, if any, indicated by strikeouts and/or double bracketing.

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Listing of the Claims

1. (Currently Amended) A computer-readable medium having computer-executable instructions for performing steps for a correspondent host to provide mobility support for communications with a mobile host, the steps comprising:

10 receiving, by a mobility service of the correspondent host, a request from a first application on the correspondent host to set up a communication connection with a second application on the mobile host, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host, wherein the mobility service is operative to provide mobility support for the first application in communicating with the second application
15 when the mobile host moves between addresses;

 calling, by the mobility service, a session establishment service of the correspondent host implementing a session establishment protocol to establish a session with the mobile host;

 establishing, by the session establishment service, a session with the mobile host;

20 setting up, by the mobility service, a communication connection under a transport protocol for communications between the first and second applications;

 obtaining, by the session establishment service, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;

 reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

25 resetting, by the mobility service, a communication connection for the new address of the mobile host.

2. (Previously Presented) A computer-readable medium as in claim 1, comprising further computer-executable instructions for the correspondent host to perform the steps of:

retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

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3. (Previously Presented) A computer-readable medium as in claim 1, comprising further computer-executable instructions for the correspondent host to perform the step of tunneling communication data to the mobile host using the new address of the mobile host before completing the step of resetting.

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4. (Original) A computer-readable medium as in claim 1, wherein the session establishment protocol is the Session Initiation Protocol.

5. (Original) A computer-readable medium as in claim 1, wherein the transport protocol is the TCP.

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6. (Original) A computer-readable medium as in claim 5, wherein the transport protocol is the UDP.

7. (Original) A computer-readable medium as in claim 1, wherein the first application identifies the second application by a name in the request to form a communication connection.

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8. (Currently Amended) A computer-readable medium having computer-executable instructions for performing steps for a correspondent host to provide mobility support for communications between a first application on the correspondent host with a second application on a mobile host over an existing session and an existing communication connection, the steps comprising:

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receiving, by a session establishment service of the correspondent host implementing a session establishment protocol, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;

reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

resetting, by a mobility service, a communication connection for the new address of the mobile host for communications between the first and second applications, the mobility service
5 being implemented in an application programming interface (API) layer of an operating system of the correspondent host,

wherein the mobility service is operative to provide mobility support for the communications between the first application and the second application when the mobile host moves between addresses.

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9. (Previously Presented) A computer-readable medium as in claim 8, comprising further computer-executable instructions for the correspondent host to perform the steps of:

retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

15 sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

10. (Previously Presented) A computer-readable medium as in claim 8, comprising further computer-executable instructions for the correspondent host to perform the step of tunneling
20 communication data to the mobile host using the new address of the mobile host after receiving the notice of the new address of the mobile host and before completing the step of resetting.

11. (Original) A computer-readable medium as in claim 8, wherein the session establishment protocol is the Session Initiation Protocol.

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12. (Original) A computer-readable medium as in claim 8, wherein the transport protocol is the TCP.

13. (Original) A computer-readable medium as in claim 8, wherein the transport protocol is the UDP.

14. (Currently Amended) A method for a correspondent host to provide mobility support for communications with a mobile host, comprising the steps of:

receiving, by a mobility service of the correspondent host, a request from a first application on the correspondent host to set up a communication connection with a second application on the mobile host, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host, wherein the mobility service is operative to provide mobility support for the first application in communicating with the second application when the mobile host moves between addresses;

calling, by the mobility service, a session establishment service of the correspondent host implementing a session establishment protocol to establish a session with the mobile host;

establishing, by the session establishment service, a session with the mobile host;

setting up, by the mobility service, a communication connection under a transport protocol for communications between the first and second applications;

obtaining, by the session establishment service, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;

reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

resetting, by the mobility service, a communication connection for the new address of the mobile host.

15. (Original) A method as in claim 14, comprising further the steps of:

retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

16. (Original) A method as in claim 14, comprising further the step of tunneling communication data to the mobile host using the new address of the mobile host before completing the step of resetting.

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17. (Original) A method as in claim 14, wherein the session establishment protocol is the Session Initiation Protocol.

18. (Original) A computer-readable medium as in claim 14, wherein the transport protocol is the TCP.

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19. (Original) A method as in claim 14, wherein the transport protocol is the UDP.

20. (Original) A method as in claim 14, wherein the first application identifies the second application by a name in the request to form a communication connection.

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